## WHAT IS CLAIMED IS:

1	Such -1.	A mail processing apparatus comprising:	
2	2011	a paper feeding mechanism that is adapted to feed sheets of paper;	
3	l	a collection bin that is adapted to receive the sheets of paper from the	
4	paper feeding mecha	nism in a stack;	
5		a retrieval mechanism that is configured to move a bottom one of said	
6	sheets of paper from	the stack; and	
7		a deionizer that is adapted to reduce static electricity in the vicinity of	
8	the stack to facilitate	removal by the retrieval mechanism of only one of said sheets of paper	
9	at a time.		
1	2.	The mail processing apparatus as in claim 1 wherein said deionizer	
2	comprises a deionizi	ng static bar.	
1	3.	The mail processing apparatus as in claim 1 wherein said deionizer is	
2	positioned so that sa	id sheets fed by said paper feeding mechanism pass over said deionizer	
3	as said sheets are rec	peived-by-said colfection bin.	
1	4.	The mail processing apparatus as in claim 1 wherein said retrieval	
2	mechanism compris	es a roller.	
1	5.	The mail processing apparatus as in claim 1 wherein said collection	
2	bin further comprise	s at least one foot, said foot for facilitating the removal of only said one	
3	sheet by stripping of	f adjacent sheets from said one sheet.	
1	6.	The mail processing apparatus as in claim 1 further comprising a	
2	printer that is adapte	d to print alpha-numeric characters on said sheets prior to said sheets	
3	being fed by said pa	per feeding mechanism.	
1	7.	The mail processing apparatus as in claim 1 further comprising a card	
2	attachment mechani	sm for attaching a card to said one sheet.	
1	8.	The mail processing apparatus as in claim 1 further comprising a sheet	
2	folding mechanism for folding said one sheet.		
1	9.	A method of processing mail, said method comprising:	

2	providing a plurality of sheets of paper;
3	feeding said sheets of paper sequentially into a collection bin to form a
4	stack, said collection bin comprising a deionizer that is adapted to reduce static electricity in
5	the vicinity of the stack; and
6	retrieving a bottom one of said sheets of paper from the stack with a
7	retrieval mechanism.
1	10. The method as in claim 9 wherein said deionizer comprises a static bar,
2	and wherein said feeding comprises sequentially passing said sheets over said static bar.
1	11. A mail processing apparatus comprising:
2	a track over which paper sheets are adapted to pass in sequence;
3	a moving mechanism that is adapted to move the sheets along the
4	track; and
5	an inserting mechanism that is adapted to add an insert to one of the
6	sheets while on the track, wherein the inserting mechanism includes;
7	a grasping mechanism that is adapted to grasp and move the
8	insert onto the sheet; and
9	a nozzle positioned above the track that is adapted to direct a
10	gas stream onto the insert to hold the insert to the sheet, thereby facilitating the passage of the
11	grasping mechanism over both the sheet and the insert when grasping a subsequent insert for
12	a subsequent sheet.
1	12. The mail processing apparatus as in claim 11 wherein said inserting
2	mechanism comprises a bin to hold a stack of inserts, and at least one vacuum finger to pull a
3	bottom insert from said stack where it is grasped by said grasping mechanism.
1	13. The mail processing apparatus as in claim 11 wherein said nozzle is
2	coupled to said grasping mechanism.
1	14. The mail processing apparatus as in claim 11 wherein said nozzle
2	comprises an elongate slit for directing said gas stream.
1	15. The mail processing apparatus as in claim 11 wherein said moving
2	machanism comprises a pair of fingers that move along said track

1	10	6.	The mail processing apparatus as in claim 11 further comprising a
2	sensor that is ada	apted	to detect if the insert has been grasped by said grasping mechanism.
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1	. 17		The mail processing apparatus as in claim 16 wherein said sensor
2	comprises a pres	ssure s	sensor.
1	18	8.	The mail processing apparatus as in claim 16 wherein said sensor
2	comprises an opt	tical s	ensor.
1		9.	The mail processing apparatus as in claim 16 further comprising an
2	indicator that is a	adapte	ed to indicate if said grasping mechanism fails to grasp said insert.
1	20	0.	The mail processing apparatus as in claim 19 wherein said indicator
2	further comprise	es an i	nterrupt circuit coupled to and adapted to stop operation of said moving
3	mechanism and	said i	nserting mechanism, if said grasping mechanism fails to grasp said
4	insert.		
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1		1.	The mail processing apparatus as in claim 11 further comprising a
2		apted	to detect if more than one insert has been grasped by said grasping
3	mechanism.		
1	22	2.	The mail processing apparatus as in claim 21 further comprising an
2	indicator that is a	adapt	ed to operate if said grasping mechanism grasps more than one said
3	insert.		
1	2:	3.	The mail processing apparatus as in claim 22 wherein said indicator
2			nterrupt circuit coupled to and adapted to stop operation of said moving
3	•		nserting mechanism, if said grasping mechanism grasps more than one
4	said insert.		
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1	24	4.	A method of processing mail, said method comprising:
2			passing first and second paper sheets along a track; and
3			adding an insert to said first sheet, said adding comprising;
4			grasping said insert with a grasping mechanism;
5			moving said insert onto said first sheet; and

6	holding said insert to said first sheet, said holding comprising
7	directing a gas stream onto said insert, and wherein said holding is adapted to facilitate the
8	passage of the grasping mechanism over both the first sheet and the insert when grasping a
9	subsequent insert for the second sheet.
1	25. The method as in claim 24 further comprising sensing whether said
2	grasping mechanism has grasped only one insert using a sensor.
1	26. The method as in claim 24 further comprising ceasing said passing and
2	adding if said sensor indicates that said grasping mechanism failed to grasp said insert.
1	27. The method as in 24 further comprising ceasing said passing and
2	adding if said sensor indicates that said grasping mechanism grasped more than one said
3	insert.
1	28. A mail processing apparatus comprising;
2	a track;
3	an envelope feeder that is adapted to feed an envelope onto the track;
4	an inserting mechanism that is adapted to place inserts into the
5	envelope; and
6	a nozzle system that is adapted to direct a gas into the envelope to hold
7	the envelope open for the inserts, wherein the nozzle system comprises;
8	a central nozzle that is adapted to direct said gas into a central
9	region of the envelope; and
10	a side nozzle that is adapted to direct said gas near an edge of
11	the envelope.
1	29. The mail processing apparatus as in claim 28 further comprising a gas
2	adjust nozzle to control a flow rate of said gas through said side nozzle.
1	30. The mail processing apparatus as in claim 28 further comprising a
2	fixture to hold-said side nozzle to spie central-nozzle.
1	31. A method of processing mail, said method comprising;
2	providing an insert to be placed into an envelope;

3	feeding the envelope onto a track, said envelope having an opening;
4	and
5	directing a gas into the opening to hold open the envelope to facilitate
6	receipt of the insert by the envelope, said directing comprising;
7	directing the gas with a central nozzle into a central region of
8	the envelope opening; and
9	directing the gas with a side nozzle near an edge of the
10	envelope opening.

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